

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number  
**WO 2005/092772 A1**

(51) International Patent Classification<sup>7</sup>: **B66B 13/12**

(74) Agent: **JOLLY, Jean-Pierre**; Cabinet Jolly, 54, rue de Clichy, F-75009 Paris (FR).

(21) International Application Number:  
PCT/IB2004/000917

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 22 March 2004 (22.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (*for all designated States except US*): **OTIS ELEVATOR COMPANY** [US/US]; Ten Farm Springs Road, Farmington, CT 06032 (US).

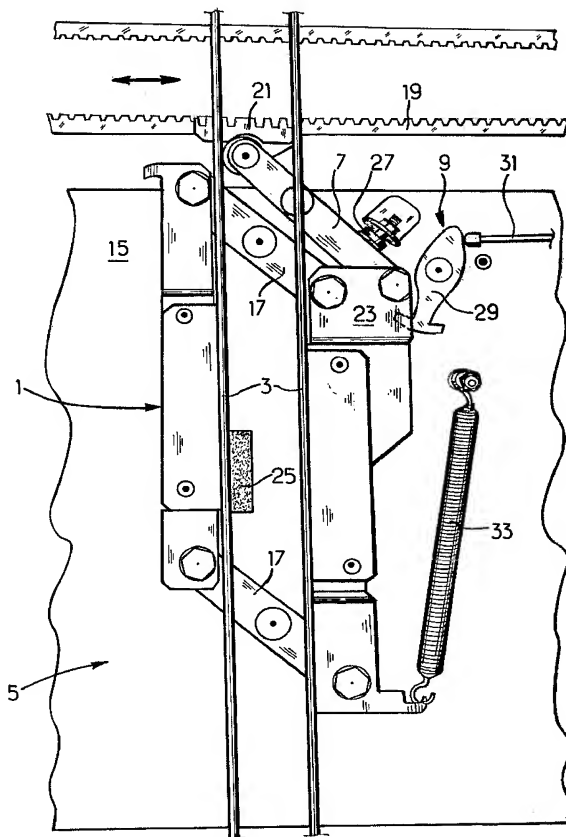
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **BADAOUI, Amine** [FR/FR]; 100, avenue Delattre de Tassigny, F-45250 Briare (FR). **TANTIS, Jean-Pierre** [FR/FR]; Les Loups, F-45420 Bonny sur Loire (FR).

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,

[Continued on next page]

(54) Title: COUPLING DEVICE FOR ELEVATOR CAR DOORS AND LANDING DOORS



(57) Abstract: The invention is relating to a coupling device for elevator car (5) and landing doors of the kind comprising moving cams (3) integral with the car door (5) and driving the landing door in front of a story landing by means of a coupling plate integral therewith and engaging with the cams (3), locking it mechanically and electrically upon door closure to allow the subsequent drive of the car, wherein said cams (3) are movably mounted with a variable distance from each other on the car door (5), independently from the car door drive belt (19), and a part (7) is provided to drive the cams (3) with a variable distance, which part (7) is mounted on the car door (5) and connected to the drive belt (19) and to one of the cams (3) to drive it towards and away from the other cam (3) with a large displacement relative to a small overtravel drive of the belt (19), in order to respectively allow to unlock the coupling plate and its landing door drive coupling when the doors open and to lock it when they close.



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

**Declaration under Rule 4.17:**

— of inventorship (Rule 4.17(iv)) for US only

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*